

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	0	(control center).clm. and thwart\$4. clm. and attack.clm. and physically. clm. and separate.clm. and monitor. clm. and analysis.clm. and malicious.clm. traffic.clm. filter\$4. clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/13 19:30
L3	0	(control center) and thwart\$4 and attack and physically and separate and monitor and analysis and malicious traffic filter\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/13 19:32
L4	0	(control center) same thwart\$4 same attack same physically same separate same monitor same analysis same malicious same traffic same filter\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/13 19:33
S1	2	"6321338".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/27 10:23
S2	2	"6775657".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/27 14:11
S3	2	"6591306".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 08:18
S4	1	09/931561	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 10:41
S5	97	(denial near service) same ((different or multiple or plurality or second) near2 (network or internet))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 10:42
S6	30	(denial near service) same (moniter\$5 or detect\$5) same ((different or multiple or plurality or second) near2 (network or internet))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 12:10

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S7	2	"6735702".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 12:10
S8	14	(attack) same (redundant network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 13:01
S9	11	((denial near2 service) or ((malicious or trojan or virus) near2 attack)) same (redundant network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 13:03
S10	40	((denial near2 service) or ((malicious or trojan or virus) near2 attack)) and (redundant network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 13:53
S11	276	726/2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 13:54
S12	516	726/22.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 14:00
S13	337	726/23.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 14:00
S14	250	726/24.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/04/28 14:00

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Best 200 shown

1 Security Mechanisms in High-Level Network Protocols Victor L. Voydock, Stephen T. KentJune 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 2**Publisher:** ACM PressFull text available:  pdf(3.23 MB)Additional Information: [full citation](#), [references](#), [citations](#)**2 Link and channel measurement: A simple mechanism for capturing and replaying wireless** Glenn Judd, Peter SteenkisteAugust 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network analysis E-WIND '05****Publisher:** ACM PressFull text available:  pdf(6.06 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. Emulation, as opposed to simulation, is to accurately model the wireless channel. In this paper, we propose a simple mechanism for capturing and replaying wireless channel traces. A key advantage of this approach is that it does not require physical access to the wireless channel, with which these measurements can be obtained since virtually all wireless devices provide the ability to capture and replay wireless channel traces.

Keywords: channel capture, emulation, wireless**3 The monitoring and early detection of internet worms**

Cliff C. Zou, Weibo Gong, Don Towsley, Lixin Gao

October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5**Publisher:** IEEE PressFull text available:  pdf(594.79 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

After many Internet-scale worm incidents in recent years, it is clear that a simple self-propagating worm can cause significant damage to the Internet and cause severe damage to our society. Facing this great security threat, we need to detect the presence of a worm in the Internet as quickly as possible in order to give people a sufficient amount of time for counteractions. This paper first presents an Internet worm monitoring and detection system.

Keywords: computer network security, early detection, internet worm, network monitoring

4 Special issue on wireless pan & sensor networks: Design and analysis of Hybrid Indirect T in wireless micro sensor networks

Benjamin J. Culpepper, Lan Dung, Melody Moh

January 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8 Is:

Publisher: ACM Press

Full text available:  pdf(440.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Sensor networks have many potential applications in biology, physics, medicine, and the military. The networks is to maximize network life under the constraint of limited power supply. The paper analysis of routing and data gathering. A new protocol is proposed: Hybrid Indirect Transmission (HIT). HIT consists of one or more clusters, each of which is based on multiple, multi-hop indirect transmission.

5 Routing: ANODR: anonymous on demand routing with untraceable routes for mobile ad-hoc networks

◆ Jiejun Kong, Xiaoyan Hong

June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networks**

Publisher: ACM Press

Full text available:  pdf(236.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In hostile environments, the enemy can launch traffic analysis against interceptable routing information and data packets. Allowing adversaries to trace network routes and infer the motion pattern of nodes pose a serious threat to covert operations. We propose ANODR, an anonymous on-demand routing protocol deployed in hostile environments. We address two closely related problems: For *route anonymity*, we propose a

Keywords: anonymity, broadcast, mobile ad-hoc network, on-demand routing, pseudonymity, routing

6 The consensus problem in fault-tolerant computing

◆ Michael Barborak, Anton Dabura, Minošlaw Malek

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(4.80 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Byzantine agreement, consensus problem, decision theory, processor membership, reliability

7 SPV: secure path vector routing for securing BGP

◆ Yih-Chun Hu, Adrian Perrig, Marvin Sirbu

August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Internet technologies, architectures, and protocols for computer communications SIGCOMM 2004**

Publisher: ACM Press

Full text available:  pdf(236.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As our economy and critical infrastructure increasingly relies on the Internet, the insecurity of the Border Gateway Protocol (BGP) stands out as the Achilles heel. Recent misconfigurations and attacks have demonstrated that BGP has become a priority. In this paper, we focus on a viable deployment path to secure BGP. We consider tradeoffs of mechanisms that achieve the requirements. In particular, we study how to

Keywords: BGP, Border Gateway Protocol, interdomain routing, routing, security

8 A robust system for accurate real-time summaries of internet traffic

◆ Ken Keys, David Moore, Cristian Estan

June 2005 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2005 conference on SIGMETRICS**

conference on Measurement and modeling of computer systems SIGMETRI

Publisher: ACM Press

Full text available:  pdf(222.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Good performance under extreme workloads and isolation between the resource consumption of goals of computer systems ranging from multitasking servers to network routers. In this paper computes multiple summaries of IP traffic in real time and achieves robustness and isolation by automatically adapting the parameters of the summarization algorithms. In traditional systems,

Keywords: adaptive response, measurement, passive monitoring, sampling, traffic estimation

9 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on**

Publisher: IBM Press

Full text available:  pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on these diagrams obtain a better understanding of the execution of the application. The visualization tool we use is developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with a clear overview of the execution of the application. In our experience, such tools display repeated occurrences of non-trivial communication patterns, which are often difficult to interpret.

10 Special feature: Report on a working session on security in wireless ad hoc networks

 Levente Buttyán, Jean-Pierre Hubaux

January 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.50 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

11 Scalability, fidelity, and containment in the potemkin virtual honeyfarm

 Michael Vrable, Justin Ma, Jay Chen, David Moore, Erik VandeKieft, Alex C. Snoeren, Geoffrey M. Voelker

October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM SIGOPS/IFIP conference SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  pdf(506.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

The rapid evolution of large-scale worms, viruses and bot-nets have made Internet malware a primary concern. The root of modern scourges including DDoS extortion, on-line identity theft, SPAM, phishing, and denial-of-service attacks -- tools for gathering intelligence on new malware -- network honeypots -- have forced investigators to work at a large scale or capturing behavior with high fidelity. In this paper, we describe an approach to scaling up the fidelity and containment of a virtual honeyfarm.

Keywords: copy-on-write, honeyfarm, honeypot, malware, virtual machine monitor

12 GPGPU: general purpose computation on graphics hardware

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Al Hart

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  pdf(63.03 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful general purpose processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with multiple SIMD and pixel processing units that support vector operations up to full IEEE floating point precision. This makes GPU-based general purpose computation on graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel and SIMD-oriented, with a large number of cores and a shared memory space.

13 Balancing performance and flexibility with hardware support for network architectures

 Ilija Hadžić, Jonathan M. Smith

November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available:  pdf(719.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

The goals of performance and flexibility are often at odds in the design of network systems. The architectural solution, rather than a set of context-specific solutions. The Programmable Protocol Processor (PPP) is a new class of programmable hardware to selectively accelerate protocol processing functions. A set of field-programmable gate arrays (FPGAs) and associated library of network processing modules implemented in hardware are augmented with

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable protocol processing

14 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world

 Marjory S. Blumenthal, David D. Clark

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available:  pdf(176.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This article looks at the Internet and the changing set of requirements for the Internet as it became more of a global infrastructure, used for a wider set of purposes. We discuss a set of principles that I have called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements will have a significant consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

15 Attacking passwords and bringing down the network: Exploiting open functionality in SMS-ESMS

 William Enck, Patrick Traynor, Patrick McDaniel, Thomas La Porta

November 2005 **Proceedings of the 12th ACM conference on Computer and communication networks**

Publisher: ACM Press

Full text available:  pdf(611.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Cellular networks are a critical component of the economic and social infrastructures in which we depend. Cellular networks deliver alphanumeric text messages to the vast majority of wireless subscribers. To ensure the quality of service, telecommunications companies offer connections between their networks and the Internet. These connections, however, have not been fully recognized. In this paper, we evaluate the security implications of these connections.

Keywords: denial-of-service, open-functionality, sms, telecommunications

16 Integrating security in a large distributed system

 M. Satyanarayanan

August 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.90 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Andrew is a distributed computing environment that is a synthesis of the personal computing and networked computing environments. It is expected to encompass over 5,000 workstations spanning the Carnegie Mellon University campus. This paper discusses the security issues that arise in such an environment and describes the mechanisms that have been developed to address them. These mechanisms include the logical and physical separation of servers and clients, support for secure communication, and a secure distributed file system.

17 Devirtualizable virtual machines enabling general, single-node, online maintenance

David E. Lowell, Yasushi Saito, Eileen J. Samberg

October 2004 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Proceedings of the 11th international conference on Architectural support for operating systems ASPLOS-XI**, Volume 32 , 38 , 39 Issue 5 , 5 , 11

Publisher: ACM Press

Full text available: [pdf\(174.01 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citr](#)

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. Many nodes are typically performed a few nodes at a time, making maintenance slow and often unreliable. Maintenance does not work on single-node systems, despite the fact that their unavailability due to

Keywords: availability, online maintenance, planned downtime, virtual machines

18 A quantitative analysis of cache policies for scalable network file systems

Michael D. Dahlin, Clifford J. Mather, Randolph Y. Wang, Thomas E. Anderson, David A. Patterson
May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 Measurement and modeling of computer systems SIGMETRICS '94**, Volume 2.

Publisher: ACM Press

Full text available: [pdf\(1.42 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citr](#)

Current network file system protocols rely heavily on a central server to coordinate file activity. This central server can become a bottleneck that limits scalability for environments with large numbers of clients. In NFS and AFS, all client writes, cache misses, and coherence messages are handled by the server. Expensive server machines are needed, configured with high-performance CPUs, memory systems, and

19 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne
July 1985 **ACM SIGART Bulletin**, Issue 93

Publisher: ACM Press

Full text available: [pdf\(5.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deepening of our understanding of the current generation of ideas, but more importantly, also about their limitations and the need for new directions. The following ideas seem to us to be worthy of note in this connector

20 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.64 MB\)](#)

Additional Information: [full citation](#)

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